Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

1. (Currently Amended) A method, comprising:

scanning an address space to locate <u>a structure</u>, <u>wherein scanning the address</u> <u>space to locate the structure comprises scanning for</u> an identification register of a <u>structure device</u> whose value matches a predetermined value, wherein the <u>value of the</u> identification register identifies a starting address location of the structure within the address space;

determining the starting address location of the structure <u>from the identification</u> register whose value matches the <u>predetermined value</u>; and

accessing a register located within the structure by adding a predetermined offset to the starting address location of the structure.

- 2. (Previously Presented) The method of claim 1, wherein scanning the address space includes scanning a PCI address space.
- 3. (Previously Presented) The method of claim 1, wherein scanning the address space includes scanning a PCI Express address space.
- 4. (Currently Amended) The method of claim 1, wherein scanning the address space to locate the structure includes scanning an address space to locate a structure that is located within a configuration space of a-the device.
- 5. (Previously Presented) The method of claim 2, wherein scanning the address space to locate the structure includes reading an 8-bit PCI capabilities pointer located inside a target device.

- 6. (Previously Presented) The method of claim 5, wherein scanning the address space to locate the structure further includes determining whether the 8-bit PCI capabilities pointer is a valid capabilities pointer.
- 7. (Previously Presented) The method of claim 6, wherein scanning the address space to locate the structure further includes following the 8-bit PCI capabilities pointer to read an 8-bit capabilities identification value.
- 8. (Previously Presented) The method of claim 7, wherein scanning the address space to locate the structure further includes determining whether the read 8-bit capabilities identification value matches a predetermined capabilities identification value.
- 9. (Previously Presented) The method of claim 8, wherein scanning the address space to locate the structure further includes reading a next 8-bit capabilities pointer if the read 8-bit capabilities identification value does not match the predetermined capabilities identification value.
- 10. (Previously Presented) The method of claim 9, wherein determining the starting address location of the structure includes returning a pointer to the structure if the read 8-bit capabilities identification value matches the predetermined capabilities identification value.
- 11. (Previously Presented) The method of claim 3, wherein scanning the address space to locate the structure includes reading a 12-bit PCI Express capabilities pointer located inside a target device.
- 12. (Previously Presented) The method of claim 11, wherein scanning the address space to locate the structure further includes determining whether the 12-bit PCI Express capabilities pointer is a valid capabilities pointer.

- 13. (Previously Presented) The method of claim 12, wherein scanning the address space to locate the structure further includes following the 12-bit PCI Express capabilities pointer to read a 16-bit capabilities identification value.
- 14. (Previously Presented) The method of claim 13, wherein scanning the address space to locate the structure further includes determining whether the read 16-bit capabilities identification value matches a predetermined capabilities identification value.
- 15. (Previously Presented) The method of claim 14, wherein scanning the address space to locate the structure further includes reading a next 12-bit capabilities pointer if the read 16-bit capabilities identification value does not match the predetermined capabilities identification value.
- 16. (Previously Presented) The method of claim 15, wherein determining the starting address location of the structure includes returning a pointer to the structure if the read 16-bit capabilities identification value matches the predetermined capabilities identification value.
- 17. (Currently Amended) A machine-readable medium having stored thereon instructions which, when executed by a computer system, causes the computer system to perform a method comprising:

scanning an address space to locate a structure, wherein scanning the address space to locate the structure comprises scanning for an identification register of a structure device whose value matches a predetermined value, wherein the value of the identification register identifies a starting address location of the structure within the address space;

determining the starting address location of the structure <u>from the identification</u> register whose value matches the predetermined value; and

accessing a register located within the structure by adding a predetermined offset to the starting address location of the structure.

Application No.: 10/750,057

- 18. (Previously Presented) The machine-readable medium of claim 17, wherein scanning the address space includes scanning a PCI address space.
- 19. (Previously Presented) The machine-readable medium of claim 17, wherein scanning the address space includes scanning a PCI Express address space.
- 20. (Currently Amended) The machine-readable medium of claim 17, wherein scanning the address space to locate the structure includes scanning an address space to locate a structure that is located within a configuration space of a-the device.
- 21. (Previously Presented) The machine-readable medium of claim 18, wherein scanning the address space to locate the structure includes reading an 8-bit PCI capabilities pointer located inside a target device.
- 22. (Previously Presented) The machine-readable medium of claim 21, wherein scanning the address space to locate the structure further includes determining whether the 8-bit PCI capabilities pointer is a valid capabilities pointer.
- 23. (Previously Presented) The machine-readable medium of claim 22, wherein scanning the address space to locate the structure further includes following the 8-bit PCI capabilities pointer to read an 8-bit capabilities identification value.
- 24. (Previously Presented) The machine-readable medium of claim 23, wherein scanning the address space to locate the structure further includes determining whether the read 8-bit capabilities identification value matches a predetermined capabilities identification value.
- 25. (Previously Presented) The machine-readable medium of claim 24, wherein scanning the address space to locate the structure further includes reading a next 8-bit capabilities pointer if the read 8-bit capabilities identification value does not match the predetermined capabilities identification value.

- 26. (Previously Presented) The machine-readable medium of claim 25, wherein determining the starting address location of the structure includes returning a pointer to the structure if the read 8-bit capabilities identification value matches the predetermined capabilities identification value.
- 27. (Previously Presented) The machine-readable medium of claim 19, wherein scanning the address space to locate the structure includes reading a 12-bit PCI Express capabilities pointer located inside a target device.
- 28. (Previously Presented) The machine-readable medium of claim 27, wherein scanning the address space to locate the structure further includes determining whether the 12-bit PCI Express capabilities pointer is a valid capabilities pointer.
- 29. (Previously Presented) The machine-readable medium of claim 28, wherein scanning the address space to locate the structure further includes following the 12-bit PCI Express capabilities pointer to read a 16-bit capabilities identification value.
- 30. (Previously Presented) The machine-readable medium of claim 29, wherein scanning the address space to locate the structure further includes determining whether the read 16-bit capabilities identification value matches a predetermined capabilities identification value.
- 31. (Previously Presented) The machine-readable medium of claim 30, wherein scanning the address space to locate the structure further includes reading a next 12-bit capabilities pointer if the read 16-bit capabilities identification value does not match the predetermined capabilities identification value.
- 32. (Previously Presented) The machine-readable medium of claim 31, wherein determining the starting address location of the structure includes returning a pointer to the structure if the read 16-bit capabilities identification value matches the predetermined capabilities identification value.